

NSW Maths K-10 Syllabus for the Australian Curriculum

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Unit	Focus	Topic	Content	NSW Outcome
Number and Algebra				
1	Addition	Bonding to 10	<ul style="list-style-type: none"> Solve addition questions to the value of 10 Solving addition between 2-digit and 1/2 digit numbers Solve addition word problems involving whole numbers 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
2	Addition	Adding on 10	<ul style="list-style-type: none"> Select and apply efficient mental strategies to add numbers that are multiples of 10 Solve repeated addition questions of 1-digit numbers Identify and use terms other than addition Solve addition word problems involving whole numbers 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
3	Addition	Adding on 9	<ul style="list-style-type: none"> Select and apply efficient mental strategies to calculate addition for 2-digit and 1-digit numbers Subtracts 11 from a 2-digit number Identify and use terms other than addition Solve addition word problems involving whole numbers 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
4	Subtraction	Subtracting from 10	<ul style="list-style-type: none"> Solve subtraction questions with 2-digit and 1-digit numbers Solve repeated subtraction questions of 1-digit numbers Identify and use terms other than subtract Solve subtraction word problems involving whole numbers 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
5	Subtraction	Subtracting 9, 10, 11	<ul style="list-style-type: none"> Select and apply efficient mental strategies to subtract 10, 9 and 11 from 2-digit numbers Solve repeated subtraction of 1-digit numbers 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers

			<ul style="list-style-type: none"> Solve subtraction word problems involving whole numbers 	
6	Addition	Doubling and near doubling	<ul style="list-style-type: none"> Select and apply efficient mental strategies to double 1 and 2-digit numbers Solve word problems involving doubling. 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
7	Subtraction	Halving and near halving	<ul style="list-style-type: none"> Select and apply efficient mental strategies to halve 1 and 2-digit numbers Solve word problems involving halving 	(MA2-6NA) uses mental and informal written strategies for multiplication and division
8	Multiplication	2 times table	<ul style="list-style-type: none"> Select and apply efficient mental strategies to multiply numbers by 2 Identify odd and even numbers Identify and use terms other than multiply Solve word problems involving 2 times table. 	(MA2-6NA) uses mental and informal written strategies for multiplication and division (MA2-8NA) generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values
9	Multiplication	3 times table	<ul style="list-style-type: none"> Select and apply efficient mental strategies to multiply numbers by 3 Find the sum of the digits in 2-digit numbers Identify and use terms other than multiply Solve word problems involving 3 times table. 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers (MA2-6NA) uses mental and informal written strategies for multiplication and division
10	Multiplication	4 times table	<ul style="list-style-type: none"> Select and apply efficient mental strategies to multiply numbers by 4 Identify multiples and non-multiples of 4 Identify and use terms other than multiply Solve word problems involving 4 times table. 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers (MA2-6NA) uses mental and informal written strategies for multiplication and division
11	Multiplication	The 5 times and 10 times tables	<ul style="list-style-type: none"> Select and apply efficient mental strategies to multiply numbers by 5 and 10 Identify multiples and non-multiples of 5 and 10 Identify and use terms other than multiply Solve word problems involving 5 and 10 times tables. 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers (MA2-6NA) uses mental and informal written strategies for multiplication and division
12	Division	Dividing by 2	<ul style="list-style-type: none"> Identify multiples and non-multiples of 2 Select and apply efficient mental strategies to divide numbers by 2 Identify and use terms other than divide Solve division word problems involving division by 2 	(MA2-6NA) uses mental and informal written strategies for multiplication and division
13	Division	Dividing by 3	<ul style="list-style-type: none"> Identify multiples and non-multiples of 3 Select and apply efficient mental strategies to divide numbers by 3 Calculate the remainder when divided by 3 Identify and use terms other than divide Solve division word problems involving division by 3 	(MA2-6NA) uses mental and informal written strategies for multiplication and division
14	Division	Dividing by 4	<ul style="list-style-type: none"> Identify multiples and non-multiples of 4 Select and apply efficient mental strategies to divide numbers by 4 Calculate the remainder when divided by 3 Identify and use terms other than divide Solve division word problems involving division 	(MA2-6NA) uses mental and informal written strategies for multiplication and division

			by 4	
15	Division	Dividing by 5 and 10	<ul style="list-style-type: none"> Identify multiples and non-multiples of 5 and 10 Select and apply efficient mental strategies to divide numbers by 5 and 10 Calculate the remainder when divided by 5 and 10 Identify and use terms other than divide Solve division word problems involving division by 4 	(MA2-6NA) uses mental and informal written strategies for multiplication and division
16	Fractions	Halves, quarters and parts of an amount	<ul style="list-style-type: none"> Select and apply efficient mental strategies to find the half and quarter of a whole number Calculate the number of halves and quarters in multiple of whole numbers Solve word problems involving fractions 	(MA2-7NA) represents, models and compares commonly used fractions and decimals
17	Place value	Digit recognition	<ul style="list-style-type: none"> Apply an understanding of place value to read and write numbers of up to three digits State the place value of digits in numbers of up to three digits Use place value to partition numbers of up to three digits and recognise this as 'expanded notation' Calculate the value of multiple tens 	(MA2-4NA) applies place value to order, read and represent numbers of up to five digits
18	Rounding off	Nearest 10 and 100	<ul style="list-style-type: none"> Calculate the halfway numeral between numbers based on multiples of 10 and 100 Round numbers to the nearest 10 and 100 	(MA2-4NA) applies place value to order, read and represent numbers of up to five digits
19	Sequences	Finding missing terms	<ul style="list-style-type: none"> Identify and continue number patterns involving addition and subtraction Identify missing terms using 2-digit numbers Identify the rule for a sequence 	(MA2-8NA) generalises properties of odd and even numbers, generates number patterns, and completes simple number sentences by calculating missing values
20	Equations	Number strings	<ul style="list-style-type: none"> Solve number strings involving four basic operations of one- or two-digit numbers using efficient mental and written strategies Identify and use terms to add, subtract, multiply and divide Solve word problems involving number strings 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers (MA2-6NA) uses mental and informal written strategies for multiplication and division
28	Money	Notes and coins	<ul style="list-style-type: none"> Identify Australian coins and dollar notes by their features (colour/animal/value) Calculate the amount of coins needed to match an amount Identify and use coins and bank notes to create a set amount of money in dollars or cents Solve word problems involving money 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
29	Money	Amounts, and adding and giving change	<ul style="list-style-type: none"> Calculate the amount of change from \$1 and \$2 Identify coins received in change Select and apply efficient mental strategies to add coins and dollar notes Solve word problems involving money 	(MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
Measurement and Geometry				

21	Length	Units and Conversions	<ul style="list-style-type: none"> Convert between millimetres, centimetres, metres and kilometres. Solve word problems involving units of length 	(MA2-9MG) measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures
22	Perimeter	Concept and missing sides	<ul style="list-style-type: none"> Calculate perimeter of squares with a given value Calculate the side of a square given the perimeter Calculate perimeter of a regular pentagon with a given value Calculate the side of a regular pentagon given the perimeter Calculate the perimeter of a rectangle Solve word problems involving perimeter 	(MA2-9MG) measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures (MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
23	Mass	Units and conversions	<ul style="list-style-type: none"> Convert between kilograms and grams Convert between grams and kilograms Subtract grams from kilograms Select appropriate measurement unit of mass (gram/kilogram) Arrange units of mass in order of weight Subtract grams from 1 kilogram Solve word problems involving different units of mass 	(MA2-9MG) measures, records, compares and estimates lengths, distances and perimeters in metres, centimetres and millimetres, and measures, compares and records temperatures (MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
24	Capacity and volume	Units and conversions	<ul style="list-style-type: none"> Convert between millilitres and litres Convert between litres and millilitres Select appropriate measurement unit of capacity (mL/L) Arrange units of capacity in order of size Subtract millilitre from 1 litre Solve word problems involving different units of capacity 	(MA2-10MG) measures, records, compares and estimates areas using square centimetres and square metres (MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
25	Time	Positions of the hands	<ul style="list-style-type: none"> Identifies position of big hand on analogue clock Calculates periods of time Identify which number the big hands points to Subtract minutes from an hour using the big hand Solve word problems involving time 	(MA2-13MG) reads and records time in one-minute intervals and converts between hours, minutes and seconds (MA2-5NA) uses mental and written strategies for addition and subtraction involving two-, three-, four- and five-digit numbers
26	Time	Digital and analogue conversions	<ul style="list-style-type: none"> Convert between analogue and digital time Convert between digital and analogue time Arranges analogue and digital time in an ordered sequence Identifies the order of time using digital and analogue time Solve word problems involving time 	(MA2-13MG) reads and records time in one-minute intervals and converts between hours, minutes and seconds
27	Time	Unit equivalences	<ul style="list-style-type: none"> Convert minutes to seconds Convert hours to minutes Convert weeks, fortnights and months in days Identify which season occurs in which month Convert time periods to other forms Solve word problems involving time 	(MA2-13MG) reads and records time in one-minute intervals and converts between hours, minutes and seconds

30	2D and 3D	Polygon and polyhedra properties	<ul style="list-style-type: none"> • Calculate sides on a 2D shape • Calculate faces on a 3D shape • Identify 3D shapes in the real world • Calculate 2D shapes found within 3D shapes • Identify the 3D shape based on a real world object • Solve word problems involving 2D and 3D shapes 	<p>(MA2-15MG) manipulates, identifies and sketches two-dimensional shapes, including special quadrilaterals, and describes their features</p> <p>(MA2-14MG) makes, compares, sketches and names three-dimensional objects, including prisms, pyramids, cylinders, cones and spheres, and describes their features</p>
Statistics and Probability				
31	Chance	Concepts of likelihood	<ul style="list-style-type: none"> • Describe the likelihood of a variety of events as being 'possible', 'certain' or 'impossible' to describe the chance of rolling • Describe the likelihood of a variety of events as being 'likely' or 'unlikely' to describe the chance of rolling • Express likelihood of an event as a fraction • Solve word problems based on chance 	<p>(MA2-19SP) describes and compares chance events in social and experimental contexts</p>
32	Revision			



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